PB-213 910

BULLETIN OF COURSES, JANUARY-DECEMBER, 1972

Environmental Protection Agency
Rockville, Maryland

1972

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EPA 1972

BULLETIN OF COURSES

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Springfield VA 22151

RADIOLOGICAL HEALTH TRAINING PROGRAM
OFFICE OF RESEARCH & MONITORING
ENVIRONMENTAL PROTECTION AGENCY

R 90

ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D. C. 20460

RECEIVED
AUG 9 1972
EERL
Montgomery, Alabama

8-14-72

Date: AUG 1 1972

Reply to Attn of: ABR

Subject: Cancellation of Scheduled Training Courses at EERL & NERC, Las Vegas

To: Director, National Environmental Research Center, Las Vegas
Director, Eastern Environmental Radiation Laboratory

The Office of Radiation Programs has reviewed the list and current subscription of the training courses presently scheduled at your facility for the remainder of this year. This review was based upon data supplied by your staff.

As a result of this review and the priorities of the Office of Radiation Programs, I am requesting that all scheduled courses to be presented after August 31, 1972, be cancelled and that no further training commitments be made by the Training Branches without my approval.

Steps are currently being made to review the ORP activities to ensure that any necessary reassignments will be made after full consideration of the abilities and interests of the Training Branch staff members. In this regard, both you and the staff members will be contacted shortly.

ORP is currently reviewing its role in regard to meeting radiation protection training needs. As a part of this, we are participating on the State and Local Training Needs Task Force established by the Conference of State Radiation Control Program Directors. The purpose of the Task Force is to evaluate the recommendations of Workshop #4, State and Local Training Needs, at the recent New Orleans meeting and the establishment of mechanisms for assuring the adequate determination of radiation protection training needs and ensuring timely implementation of these needs.

The Task Force met in Rockville, Maryland, on July 26-28, 1972. The members of the Task Force include Dr. Frank Bradley, New York Department of Labor, Chairman; Mr. Aaron Bond, New Mexico Environmental Improvement Agency; Mr. Dale McHard, Oklahoma Department of Health; Mr. Robert Will, Kansas Department of Health; and Miss Amelia Velez, Puerto Rico Department of Health. Mr. Richard Gross of the Bureau of Radiological Health and Mr. Richard Guimond of my office are the Federal coordinators to the Task Force.

Ia

The Task Force is expected to send its recommendations to the Conference shortly. We expect to work with the Conference, the States, other Federal agencies, and others concerned to ensure timely implementation of the Task Force recommendations.

W. D. Rowe
Deputy Assistant Administrator
for Radiation Programs

Ib

BULLETIN OF COURSES

JANUARY - DECEMBER 1972

RADIOLOGICAL HEALTH TRAINING PROGRAM
OFFICE OF RESEARCH & MONITORING
ENVIRONMENTAL PROTECTION AGENCY

Details of illustrations in
this document may be better
studied on microfiche

II

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INFORMATION FOR APPLICANTS

ORGANIZATION

On December 2, 1970, President Nixon's reorganization plan #3 of 1970 establishing the Environmental Protection Agency (EPA) went into effect. Components from various Federal agencies concerned with environmental pollution were transferred to the new Agency. Environmental radiological health training which formerly was a function of the Bureau of Radiological Health, Department of Health, Education and Welfare (DHEW-BRH), was delegated to EPA.

This bulletin describes the short-term radiological health training courses offered in calendar year 1972 by EPA. These courses emphasize environmental aspects of radiation and radioactivity. Some are modifications of previous DHEW-BRH courses while others are new and are being offered for the first time. EPA's radiological health training is being conducted by two former components of the BRH Training Institute:

WESTERN ENVIRONMENTAL RESEARCH LABORATORY
Las Vegas, Nevada

EASTERN ENVIRONMENTAL RADIATION LABORATORY
Montgomery, Alabama

TRAINING OBJECTIVES

Courses are given for scientists, engineers, and other professional personnel in the field of radiological health and environmental control. They provide effective means of consideration and appraisal of the newest developments in the subject areas, with opportunity for practice in the application of the latest techniques. Training is presented in lectures supplemented by visual aids, demonstrations, problem sessions and panel discussions.

Laboratory and field practice, where applicable, give opportunity to acquire proficiency in the new techniques under professional guidance. Full trainee participation is scheduled as an important part of each course.

TRAINING FACULTY

The courses are planned, developed, and conducted by a full-time staff of specialists in environmental sciences and engineering. Guest lecturers and consultants augment course presentations in highly specialized or technical subject areas.

TECHNICAL COURSES

Highly specialized, technical courses of one to several weeks' duration are conducted in fully equipped classrooms and laboratories of the Training Program, EPA, providing intensive training in basic knowledge, methodology and laboratory practice. Lectures, as well as laboratories, practical problem solving and field exercises, comprise the courses. These courses may be presented at selected field locations. Contact the Training Program or your Regional Representative for further information.

BENCH TRAINING

Specialized training in specific interest areas is available at both the Western Environmental Research Laboratory (WERL) and the Eastern Environmental Radiation Laboratory (EERL). Participants learn the latest techniques in radiological health laboratory procedures in an on-the-job

atmosphere. Expert guidance is provided on an individual basis by experienced Laboratory personnel currently involved in subject areas. Examples of bench training presently available are:

Radiological Instrumentation
Environmental Sample Preparation
Air Sampling and Analysis
Water Sampling and Analysis
Rad-Safe Operations

Training duration and scheduling is handled on the basis of individual requests. Additional information regarding bench training may be obtained from:

Chief, Technical Training
Western Environmental Research Laboratory
P. O. Box 15027
Las Vegas, Nevada 89114

or

Chief, Technical Training and Special Studies
Eastern Environmental Radiation Laboratory
P. O. Box 61
Montgomery, Alabama 36101

ADMISSION TO COURSES

To apply for admission to a course, complete an application form at the back of the Bulletin (preferably a separate form for each course) and mail to the address given at the beginning of the section in which the course description appears. NO TUITION OR REGISTRATION FEE IS CHARGED. Early application is advised since course rosters are limited. Trainees are expected to arrange housing and transportation while attending courses.

OTHER TRAINING WITHIN ENVIRONMENTAL PROTECTION AGENCY

The Environmental Protection Agency currently offers short-term technical training in the areas of Air Pollution, Water Pollution, and Solid Waste Management. For specific information and course descriptions, write:

Water Hygiene Division
Office of Water Programs
Environmental Protection Agency
5555 Ridge Avenue
Cincinnati, Ohio 45213

Chief, Training Branch
Division of Technical Operations
Office of Solid Waste Management Programs
Environmental Protection Agency
5555 Ridge Avenue
Cincinnati, Ohio 45213

Institute for Air Pollution
Office of Manpower Development
Environmental Protection Agency
Research Triangle Park,
North Carolina 27711

EPA REGIONAL RADIATION REPRESENTATIVES

Address correspondence to:
Environmental Protection Agency
Regional Radiation Representative
of the appropriate Regional Office

REGION I

Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
John F. Kennedy Federal Building
Boston, Massachusetts 02203
Tel: Area code 617:223-6869

REGION II

New Jersey, New York, Puerto Rico, Virgin Islands
Federal Building
26 Federal Plaza
New York, New York 10007
Tel: Area code 212:264-1317

REGION III

Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia
401 North Broad Street
Philadelphia, Pennsylvania 19108
Tel: Area code 215:597-4506

REGION IV

Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
1421 Peachtree Street
Atlanta, Georgia 30309
Tel: Area code 404:526-5230

REGION V

Illinois, Indiana, Minnesota, Michigan, Ohio, Wisconsin
New Post Office Building
433 West Van Buren Street
Chicago, Illinois 60607
Tel: Area code 312:353-5264

REGION VI

Arkansas, Louisiana, New Mexico, Oklahoma, Texas
~~1114 Commerce~~ 1600 Patterson Street
~~Room 1410~~ Suite 1108
Dallas, Texas ~~70502~~ 75201
Tel: Area code 214:749-~~2007~~ 1962

REGION VII

Iowa, Kansas, Missouri, Nebraska
601 East 12th Street
Kansas City, Missouri 64106
Tel: Area code 816:374-3038

REGION VIII

Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming
Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203
Tel: Area code 303:837-3831

REGION IX

Arizona, California, Guam, Hawaii, Nevada
760 Market Street
San Francisco, California 94102
Tel: Area code 415:556-4303

REGION X

Alaska, Idaho, Oregon, Washington
1309 Seventh Avenue
Seattle, Washington 98101
Tel: Area code 206:442-0530

COURSES TO BE PRESENTED AT WERL

Address application to: Chief, Technical Training
Western Environmental Research Laboratory, EPA
P. O. Box 15027
Las Vegas, Nevada 89114

1972

Jan. 24-Feb. 4, 1972	Radionuclide Analysis by Gamma Spectroscopy(208) . . . . .
Feb. 28-Mar. 10, 1972	Basic Radiological Health(211) . . . . .
Mar. 27-Apr. 7, 1972	Operational Aspects of Radiation Surveillance(236) . . . . .
May 1-12, 1972	Techniques in Environmental Radiation Surveillance(214) . . . . .
June 5-16, 1972	Reactor Safety and Surveillance Evaluation(224) . . . . .
August 14-25, 1972	Basic Radiological Health(211) . . . . .
September 18-29, 1972	Operational Aspects of Radiation Surveillance(236) . . . . .
October 23-Nov. 3, 1972	Radiation Protection Guides and Dose Assessment(272) . . . . .
November 6-17, 1972	Occupational Radiation Protection(212) . . . . .
December 4-15, 1972	Basic Radiological Health(211) . . . . .

Several courses are adaptable for field presentation. To negotiate the presentation of a training course at your facility, or to request more information, submit requests to:

Director
Western Environmental Research Laboratory
P. O. Box 15027
Las Vegas, Nevada 89114

COURSES TO BE PRESENTED AT EERL

Address application to: Chief, Office of Technical Training and Special Studies
Eastern Environmental Radiation Laboratory, EPA
P. O. Box 61
Montgomery, Alabama 36101

1972

January 10-21, 1972	Basic Radiological Health(211) . . . . .
February 7-18, 1972	Techniques in Environmental Radiation Surveillance(214) . . . . .
April 10-21, 1972	Radiation Protection Guides and Dose Assessment(272) . . . . .
May 15-26, 1972	Basic Radiological Health(211) . . . . .
June 19-30, 1972	Operational Aspects of Radiation Surveillance(236) . . . . .
July 10-21, 1972	Occupational Radiation Protection (212) . . . . .
Aug. 21-Sept. 1, 1972	Techniques in Environmental Radiation Surveillance(214) . . . . .
October 2-13, 1972	Basic Radiological Health(211) . . . . .
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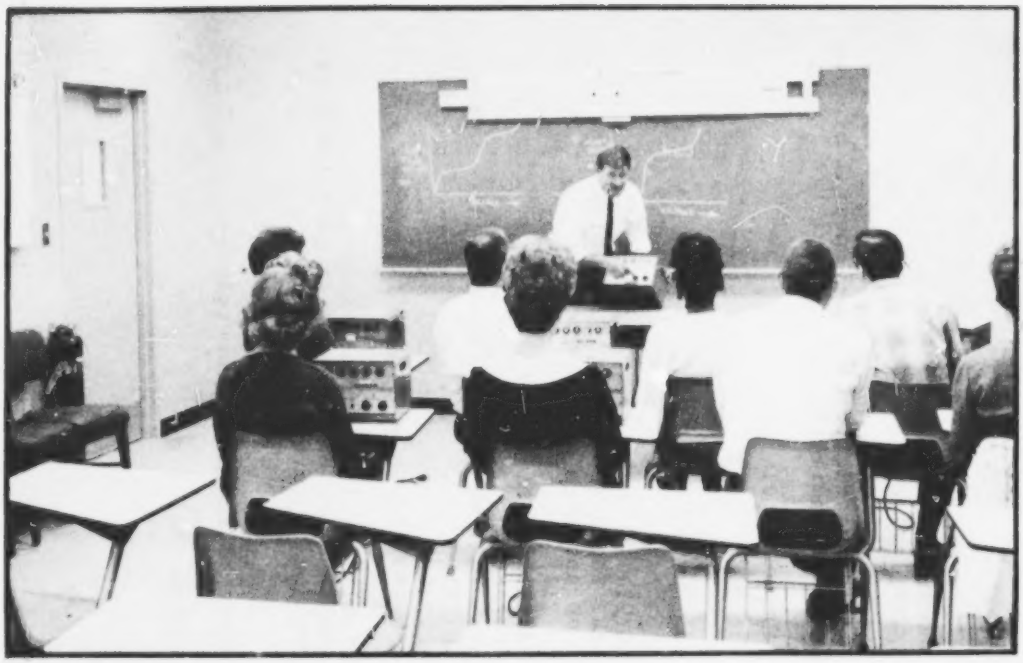
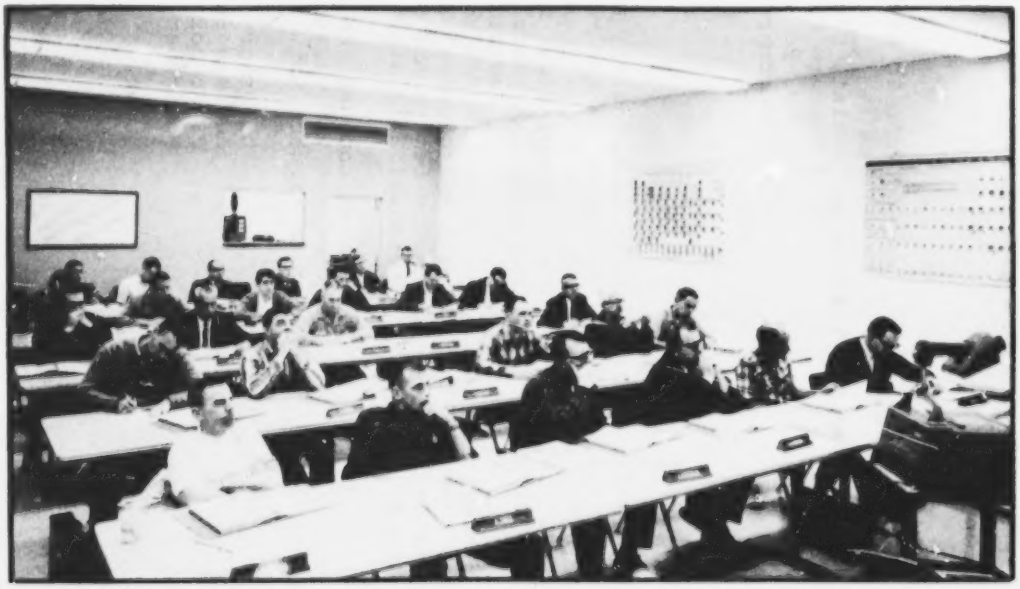
Eastern Environmental Radiation Laboratory
P. O. Box 61
Montgomery, Alabama 36101





BASIC RADIOLOGICAL HEALTH

Montgomery.....January 10-21, 1972
Montgomery.....May 15-26, 1972
Montgomery.....October 2-13, 1972
Las Vegas.....Feb. 28-Mar. 10, 1972
Las Vegas.....August 14-25, 1972
Las Vegas.....December 4-15, 1972

This course provides professional health personnel with the basic technical knowledge essential to radiological health work. It is prerequisite to the courses Occupational Radiation Protection, Radionuclide Analysis by Gamma Spectroscopy, Reactor Safety and Surveillance Evaluation, Management of Radiation Accidents, Operational Aspects of Radiation Surveillance, and Radiation Protection Guides and Dose Assessment.

This course covers sufficient basic nuclear physics and radiation theory for an understanding of the technical aspects of radiological health problems in public health. It presents in detail the major sources of radiation exposure, modes of radiation injury, quantitative units, technical terminology, and existing standards for radiation protection. Particular attention is given to the use, operation and calibration of laboratory and field-survey instruments. Approximately one-third of the scheduled time is devoted to problem and laboratory sessions.

Agenda items include:

Sources of Radiation Exposure
Atomic Structure and Radioactivity
Radioactive Decay
X-Ray Production and Properties
Interaction of Radiation with Matter
Biological Effects
Radiation Protection Guides
Principles of Radiation Detection
Principles of Radiation Protection
Survey and Personnel Monitoring Instruments
Assay of Beta and Gamma Emitters
Nuclear Reactions, including Fission and Fusion
Control of Radioactive Materials

TECHNIQUES OF ENVIRONMENTAL RADIATION SURVEILLANCE

Montgomery.....February 7-18, 1972
Montgomery.....Aug. 21-Sept. 1, 1972
Las Vegas.....May 1-12, 1972

This course is designed for personnel beginning work in environmental radiation surveillance. The course begins with a review of radiation fundamentals and progresses to the specific problems associated with radiation measurement in air, water and food chains. Specific emphasis is placed upon environmental radiation surveillance around nuclear facilities.

Training consists of lectures, demonstrations, problem sessions, laboratories and field exercises.

Lecture topics include:

- Radiation Fundamentals
- Sources of Environmental Radioactivity
- Surveillance Instrumentation
- Air Sampling Techniques
- Aquatic Sampling Techniques
- Sampling for Radionuclides in Terrestrial Organisms

OCCUPATIONAL RADIATION PROTECTION

Montgomery.....July 10-21, 1972
Las Vegas.....Nov. 6-17, 1972

This course is intended for industrial hygienists, health physicists, and other professional personnel concerned with occupational radiation protection.

Major emphasis is placed on evaluation of external and internal exposure to radionuclides and protection methods against these hazards. Special problems associated with industrial radiography and radiation accidents are considered, as well as neutron sources and machine-produced radiation, exclusive of medical x rays. Approximately one-third of the course is devoted to laboratory exercises.

Prerequisite: Basic Radiological Health course or equivalent training and/or experience.

Agenda topics include:

- Sealed Sources of Radiation
- Beta and Gamma Shielding Design
- Leak Testing of Sealed Sources
- Neutron Instrumentation, Protection & Biological Effects
- Particle Acceleration Hazards
- Characteristics and Limitations of Survey Instruments
- Laboratory Design
- Contamination Monitoring & Decontamination
- Control of Airborne Radioactivity
- Industrial X-Ray Protection
- Transportation Regulations
- Emergency Exposure & Concentration Guides
- Emergency Planning and Management
- Evaluation of Radiation Exposures
- Regulatory and Legal Aspects

OPERATIONAL ASPECTS OF RADIATION SURVEILLANCE

Las Vegas.....March 27-April 7, 1972
Las Vegas.....September 18-29, 1972
Montgomery.....June 19-30, 1972

This course is intended for engineers, scientists, and other professional personnel responsible for, or interested in, planning and conducting environmental radiation surveillance programs.

Students will receive training necessary to perform the following procedures in a surveillance program: establish practical objectives; plan, organize and develop a sampling program; interpret health significance of surveillance data and determine feasible control actions. This course and the Techniques of Environmental Radiation Surveillance course provide a fairly comprehensive overview of the methods, procedures and management aspects of environmental radiation surveillance.

The course includes lectures and demonstrations covering the transport of radionuclides through the environment from the source of emission to the sampling point. Problem sessions cover the development of air, food, and water sampling programs with statistical and judgment techniques. Surveillance data are evaluated in terms of public health significance and action with respect to current radiation protection guides. Analysis for radionuclides is covered only in relation to its effect on the selection of sampling procedures.

Prerequisite: Basic Radiological Health, Techniques in Environmental Radiation Surveillance, or equivalent training and/or experience.

Course topics include:

- Sources of Radionuclides in the Environment
- Meteorological Aspects of Airborne Radionuclides
- Transmission Pathways of Radionuclides in the Aquatic Environment
- Transmission Pathways of Radionuclides in Food Chains
- Statistical & Judgment Design of Sampling Programs
- Sampling Techniques
- Statistical Analysis of Data
- Development & Application of Radiation Protection Standards
- Protective Actions

REACTOR SAFETY AND SURVEILLANCE EVALUATION

Montgomery.....November 6-17, 1972
Las Vegas.....June 5-16, 1972

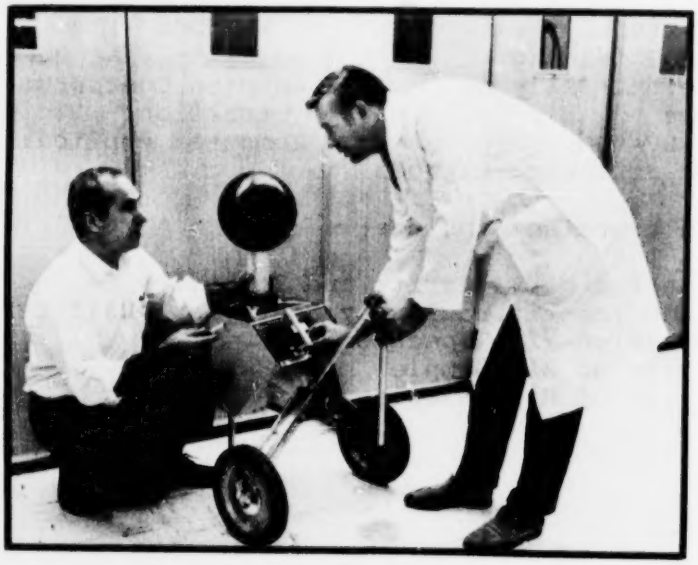
This course is designed for professional personnel responsible for, or interested in, reactor safety and the evaluation of releases of radioactivity in the environment as a result of reactor operation.

Training consists of lectures, demonstrations, problem sessions and reactor site visits when applicable. Major emphasis will be given to power reactors.

Prerequisite: Basic Radiological Health course or equivalent training and/or experience.

Lecture topics include:

Principles of Reactor Theory, Operation & Control
Instrumentation and Safety Systems
Gaseous Waste Management
Liquid Waste Management
Solid Waste Management
Fuel Handling and Storage
Environmental Analysis
Dose Calculations
Guides and Regulations



RADIONUCLIDE ANALYSIS BY GAMMA SPECTROSCOPY

Las Vegas.....January 24-Feb. 4, 1972
Montgomery.....December 4-15, 1972

This course is intended for professional personnel who measure environmental radioactivity. It enables trainees to evaluate the performance of a gamma spectrometer and perform qualitative and quantitative analysis of environmental samples by gamma spectroscopy.

The course begins with instruction in the theory and operation of the gamma spectrometer. Presented next are the considerations necessary for selecting a spectrometer and the procedures for evaluating its performance. Then follows a consideration of spectral analysis methods including hand calculation and computer. During the course, a spectrometer is calibrated and a 4 x 4 matrix system for milk analysis is developed. Extracurricular instruction can be made available for orientation to an analyzer system.

Prerequisite: Basic Radiological Health course or equivalent training and/or experience.

Lecture topics include:

- Interaction of Gamma Rays
- The Detector System
- Detector Shielding
- Pulse Height Analyzer Systems
- Display System
- Spectrum Stripping Methods
- Simultaneous Equations Methods
- Least Squares Methods
- Compton Continuum Subtraction
- Computer Applications

Laboratory exercises include:

- Evaluation of Linearity and Stability
- Nuclide Identification by Energy and Half Life
- Calibration of a Spectrometer
- Analysis of Air Sample
- Analysis of Milk Sample

RADIATION PROTECTION GUIDES AND DOSE ASSESSMENT

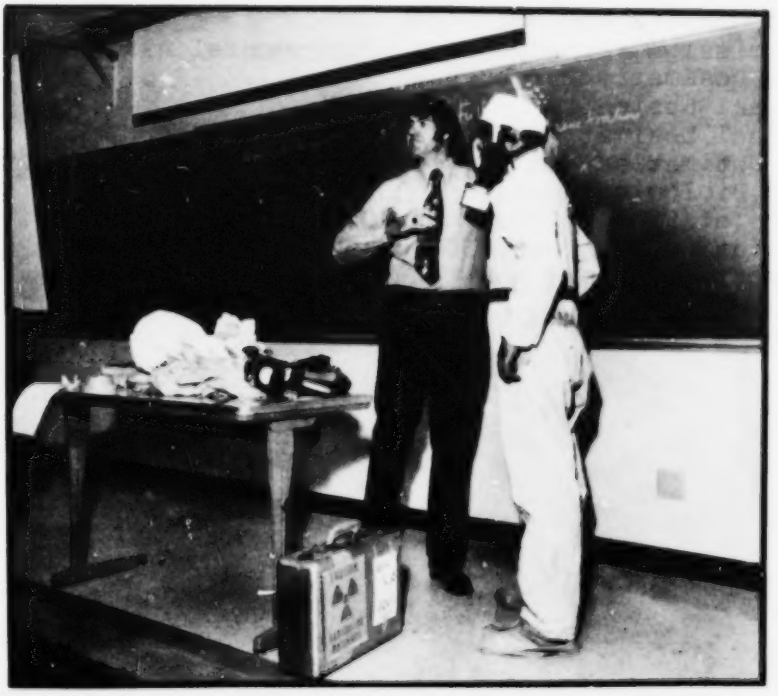
Montgomery.....April 10-21, 1972
Las Vegas.....October 23-Nov. 3, 1972

This course is intended for individuals responsible for the evaluation and interpretation of measurements and samples collected for dosimetry purposes. Lectures and demonstrations will be given concerning dosimetry measurements, the interpretation of data related to current recommended guides, and the initiation of appropriate protective actions to reduce exposure. Problem sessions concerning internal and external exposure dosimetry for individuals and population groups will be conducted. Emphasis will be placed on the discussion of current and applicable guides for radiation protection.

Prerequisite: Basic Radiological Health course or equivalent training and/or experience

Topics covered in the course include:

- Sources of Exposure and Dose
- Radiation Protection Guides for the General Public and Occupational Workers
- Transmission Pathways and Environmental Assessment for Dosimetry Purposes
- External Dosimetry
- Internal Dosimetry
- Dose Estimation and Projection from Environmental and Biological Data
- Interpretation of Dosimetry Data with Respect to Radiation Protection Guides
- Protective Actions and Countermeasures



MANAGEMENT OF RADIATION ACCIDENTS

Dates and locations to be negotiated with the requesting agencies through the appropriate Environmental Protection Agency Regional Office.

This course provides medical, engineering, and scientific personnel with knowledge of the potential hazards arising from accidents involving radiation. It also gives guidance for the management of these accidents.

Major attention is devoted to potential sources and types of accidents, preplanning first-stage management and follow-up, and public relations. Selected accidents are reviewed in detail. Class and panel discussions enable the trainee to discuss specific problems with other class members, the training staff, and consultants. Field exercises may be scheduled, and trainees should bring clothing suitable for such activities.

Prerequisite: Basic Radiological Health course or equivalent training and/or experience.

Agenda topics include:

Sources and types of Accidents:
- Criticality
- Reactor
- Laboratory Spills
- Transportation
- Weapons

Preplanning and Handling Procedures
Emergency Exposure Guides
Contamination and Decontamination
Acute Radiation Syndrome
Public Relations and Administrative Aspects
Psychological Aspects
Hazard Liability

APPLICATION

ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF RESEARCH AND MONITORING

WESTERN ENVIRONMENTAL
RESEARCH LABORATORY
P. O. Box 15027
Las Vegas, NV 89114

EASTERN ENVIRONMENTAL
RADIATION LABORATORY
P. O. Box 61
Montgomery, AL 36101

---

1. NAME OF APPLICANT:
   Mr.
   Mrs.
   Miss _____
   (Last) (First) (Middle Initial)

2. COURSE DESIRED:

   Title _____ Course No. _____

   Place where given _____ Dates _____

3. PREVIOUS COURSES ATTENDED:
   Titles Dates

   _____

   _____

   _____

4. SPONSOR OR EMPLOYER:

   Name of Organization or Firm _____

   Address _____

   _____

   Phone _____

5. MAILING ADDRESS OF APPLICANT: (If different from above)

   Number and Street _____

   City, State, and Zip _____

6. PROFESSIONAL STATUS:

Profession or Occupation _____

Position Title _____

Brief description of present position _____

_____

_____

7. EDUCATION:

Number of years education completed beyond high school _____

_____

_____

_____

8. PROFESSIONAL EXPERIENCE:

Total years experience in profession, including all public health experience _____

_____
Signature of Applicant

_____
Date

_____
Signature of Approving Officer (where applicable)

_____
Title

AU GAFB, ALA. (721077) K 5500

APPLICATION

ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF RESEARCH AND MONITORING

WESTERN ENVIRONMENTAL
RESEARCH LABORATORY
P. O. Box 15027
Las Vegas, NV 89114

EASTERN ENVIRONMENTAL
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Signature of Applicant

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Date

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Title

AU GAFB, ALA. (721077) K 5500

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Las Vegas, NV 89114

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Profession or Occupation _____

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Brief description of present position _____

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Signature of Approving Officer (where applicable)

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Title

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Brief description of present position _____

_____

_____

7. EDUCATION:

Number of years education completed beyond high school _____

_____

_____

_____

8. PROFESSIONAL EXPERIENCE:

Total years experience in profession, including all public health experience _____

_____
Signature of Applicant

_____
Date

_____
Signature of Approving Officer
(where applicable)

_____
Title

AU GAFB, ALA. (721077) K 8500